

CLAIMS

1. A dishwasher comprising a washing container, characterised in that  
the dishwasher (1, 1', 1", 1'") comprises a conduit system (4, 4', 4", 4'") connected in an air-conveying manner to a washing container (2, 2', 2", 2'") wherein both ends (11, 11', 11", 11'"; 12, 12', 12", 12'") of at least one heat tube (10, 10', 10", 10'") protrude, said heat tube (10, 10', 10", 10'") being used on the one hand for cooling and thereby drying and on the other hand for heating air passed through from the washing container (2, 2', 2", 2'").
2. The dishwasher according to claim 1, characterised in that in the at least one "drying" partial programme step the air from the washing container (2, 2', 2", 2'") is fed into the conduit system (4, 4', 4", 4'") and back into the washing container (2, 2', 2", 2'").
3. The dishwasher according to claim 1 or 2, characterised in that the washing container (2, 2', 2", 2'") has an outlet (3, 3', 3", 3'") comprising a pipe (5, 5', 5", 5'") to one end (11, 11', 11", 11'") of the heat tube (10, 10', 10", 10'"), a pipe (6, 6', 6", 6'") from one end (11, 11', 11", 11'") of the heat tube (10, 10', 10", 10'") to the other end of the heat tube (12, 12', 12", 12'") and an inlet (8, 8', 8", 8'") comprising a pipe (7, 7', 7", 7'") from the other end (12, 12', 12", 12'") of the heat tube (10, 10', 10", 10'"), wherein located in the pipe (5, 5', 5", 5'") to one end (11, 11', 11", 11'") of the heat tube (10, 10', 10", 10'") is a fan (9, 9', 9", 9'") which supplies at least some of the air in the washing container (2, 2', 2", 2'") to

the conduit system (4, 4', 4", 4'") at least temporarily.

4. The dishwasher according to any one of claims 1 to 3, characterised in that the air is cooled by means of the heat tube (10, 10', 10", 10'").
5. The dishwasher according to any one of claims 1 to 3, characterised in that the air is heated by means of the heat tube (10, 10', 10", 10'").
6. The dishwasher according to any one of claims 1 to 4, characterised in that a heater (15, 15', 15", 15'") is arranged in the pipe (7, 7', 7", 7'") between the inlet (8, 8', 8", 8'") and the other end (12, 12', 12", 12'") of the heat tube (10, 10', 10", 10'").
7. The dishwasher according to any one of claims 1 to 5, characterised in that a condenser (16, 16', 16", 16'") is arranged in the pipe (5, 5', 5", 5'") between the outlet (3, 3', 3", 3'") and one end (11, 11', 11", 11'") of the heat tube (10, 10', 10", 10'").
8. The dishwasher according to any one of claims 1 to 5, characterised in that a condenser (16, 16', 16", 16'") is arranged in the pipe (6, 6', 6", 6'") between one end (11, 11', 11", 11'") of the heat tube (10, 10', 10", 10'") and the other end (12, 12', 12", 12'") of the heat tube (10, 10', 10", 10'").